

ABSTRACT

CONTINUOUSLY VARIABLE ELECTROMAGNETIC TRANSMISSION

The continuously variable electromagnetic transmission comprises a commutator-less, axial flux dynamoelectric machine (3) provided with an input shaft (2) and an output shaft (4), and means (20) for controlling and supplying electric power at a variable frequency to said machine. The dynamoelectric machine comprises a stator 5 (16), a first rotor (12) which is connected to the input shaft, and a second rotor (15) which is connected to the output shaft and arranged in such a way that it can interact with the first rotor and the stator, whereby the two rotors and the stator are formed by discoid elements. The transmission comprises means for axially displacing at least one of the discoid elements in order to modify the width of the axial air gap between 10 said element and an adjacent discoid element, whereby the magnetic field can be regulated by variations in said gap and the two rotors can be mechanically coupled to each other. Said transmission can be used in a motor vehicle, especially a vehicle with hybrid propulsion

15 Figure 1